SEP 1 7 2013



510(k) Summary

ArthroCare® Corporation MultiFIX® S Knotless Fixation System

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

General Information

Submitter Name:

ArthroCare Corporation

Address

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Austin, TX 78735

Contact Person:

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Date Prepared:

August 16, 2013

Device Name

Proprietary Name:

MultiFIX® S Knotless Fixation System

Common Name:

Bone Anchor

Classification Name:

Smooth or threaded metallic bone fixation fastener

Device Class:

Class II

Product Code:

MBI

CFR Section:

21 CFR 888.3040

Predicate Device

MultiFIX® S Knotless Fixation System: K131182 (cleared July 29, 2013)

Description

The MultiFIX S Knotless Fixation System (MultiFIX S) is an implantable bone anchor with inserter handle designed for use in arthroscopic and orthopedic procedures. The MultiFIX S is a knotless fixation device, meaning that manually tying surgical knots is not necessary for the fixation of suture to tissue.

The MultiFIX S consists of two primary parts: an implantable bone anchor and an anchor inserter, which is preloaded with the anchor. The anchor inserter is a disposable tool.



The entire product is packaged in a tray with a Tyvek lid, and the finished product is sterilized by irradiation. Both the anchor and inserter are designed for single use only.

The MultiFIX S Knotless Fixation System consists of the bone anchor and associated instruments for implanting the bone anchor. In accordance with the ArthroCare Product Development Process, testing was performed to demonstrate the proposed device is substantially equivalent to the predicate device.

Intended Use/Indications For Use

The MultiFIX S Knotless Fixation Device is indicated for use in fixation of soft tissue to bone.

Examples of such procedures include:

Shoulder: Bankart Repair, SLAP lesion repair, acromio-clavicular separation, rotator cuff repair, capsule shift/capsule-labral reconstruction, biceps tenodesis, and deltoid repair

Ankle: Lateral instability, medial instability, Achilles tendon repair/reconstruction, and midfoot reconstruction

Foot: Hallux valgus reconstruction

Elbow: Tennis elbow repair, biceps tendon reattachment

Knee: Extra-capsular repairs; reattachment of: medial collateral ligament, posterior oblique ligament or joint capsule closure to anterior proximal tibia; extra capsular reconstruction, ITB tenodesis; patellar ligament and tendon avulsions

Non-Clinical Data

Bench testing was performed on both the proposed and predicate devices. The test results demonstrate that the MultiFIX S meets its design, performance, and safety specifications. Based on the test results, the proposed device performs as intended and mechanical properties are substantially equivalent to the predicate devices when used in accordance with labeling.

Clinical Data

No clinical or animal data are included in this submission.

<u>Summary</u>

All testing demonstrates that the MultiFIX S performs as intended and has acceptable mechanical properties when used in accordance with its labeling.

As the intended use, operating principle, materials and technological characteristics are comparable to the predicate device, the MultiFIX S Knotless Fixation System is substantially equivalent. The minor differences between the proposed MultiFIX S and predicate device do not raise any new questions of safety or effectiveness.



Comparison of Technological Characteristics		
Characteristics	Predicate Device MultiFIX S (K131182)	Proposed Device MultiFIX S
Intended Use:	Fixation of soft tissue to bone	Same
Delivery Method	Arthroscopic and Limited Access	Same
How Supplied	Sterile	Same
Fr Suture Material 2	No. 2 UHMWPE Suture	Same
Anchor Material	Invibio PEEK Optima®	Same
Design Technology	Pound in Anchor with screw	· Same
Bone Locking Mechanism	Interference Fit (threaded screw)	Same
Suture Locking Mechanism.	Plug/Cylinder Compression	Same
# of Sumre Legs	2, 3 or 4	Same
Diameter of Cortical Lock	5.5 mm & 6.5 mm	Same
Anchor Deployed Length	20 to 23 mm	Same
Device Length	299mm	291mm
Sterilization Method	Irradiation	Same
Packaging	Sterile / Thermoform Tray with Tyvek Lid	Same





Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

September 17, 2013

ArthroCare Corporation Mr. Mitchell Dhority Vice President, Regulatory Affairs 7000 West William Cannon Drive Austin, Texas 78735

Re: K132590

Trade/Device Name: MultiFIX® S Knotless Fixation System

Regulation Number: 21 CFR 888.3040

Regulation Name: Smooth or threaded metallic bone fixation fastener

Regulatory Class: Class II Product Code: MBI Dated: August 16, 2013 Received: August 19, 2013

Dear Mr. Dhority:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set

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forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

of Surveillance and Biometrics/Division of Postmarket Surveillance.

Sincerely yours,

Mark Nimelkerson -S

Mark N. Melkerson Director Division of Orthopedic Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K 132590		
Device Name: MultiFIX® S Knotless Fixation System		
Indications for Use:		
The MultiFIX S is indicated for use in fixation of soft tissue to bone.		
Examples of such procedures include:		
Shoulder: Bankart Repair, SLAP lesion repair, acromio-clavicular separation, rotator cuff repair, capsule shift/capsule-labral reconstruction, biceps tenodesis, and deltoid repair		
Ankle: Lateral instability, medial instability, Achilles tendon repair/reconstruction, and midfoot reconstruction		
Foot: Hallux valgus reconstruction		
Elbow: Tennis elbow repair, biceps tendon reattachment		
Knee: Extra-capsular repairs; reattachment of: medial collateral ligament, posterior oblique ligament or joint capsule closure to anterior proximal tibia; extra capsular reconstruction, ITB tenodesis; patellar ligament and tendon avulsions		
Prescription Use X Over-The-Counter Use (Part 21 CFR 801 Subpart D) AND/OR (21 CFR 801 Subpart C)		
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)		
Concurrence of CDRH, Office of Device Evaluation (ODE)		

